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November 25, 2019

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29210

RE: Duke Energy Progress, LLC – Monthly Fuel Report
Docket No. 2006-176-E

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of October 2019.

Sincerely,

Heather Shirley Smith

Heather Shirley Smith

Enclosure

cc: Service List

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Duke Energy Progress
Summary of Monthly Fuel Report

Schedule 1

Line No.	Item		October 2019
1	Fuel and Fuel-related Costs excluding DERP incremental costs	$	118,318,726
	MWH sales:		
2	Total System Sales		5,547,511
3	Less intersystem sales		616,228
4	Total sales less intersystem sales		4,931,283
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)		2.3993
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)		2.4672
	Generation Mix (MWH):		
	Fossil (By Primary Fuel Type):		
7	Coal		696,132
8	Oil		4,705
9	Natural Gas - Combustion Turbine		201,405
10	Natural Gas - Combined Cycle		1,603,264
11	Biogas		409
12	Total Fossil		2,505,915
13	Nuclear		2,206,882
14	Hydro - Conventional		19,876
15	Solar Distributed Generation		19,087
16	Total MWH generation		4,751,760

Note: Detail amounts may not add to totals shown due to rounding.

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Duke Energy Progress
Details of Fuel and Fuel-Related Costs

Description		October 2019
Fuel and Fuel-Related Costs:		
Steam Generation - Account 501		
0501110 coal consumed - steam	$	26,659,297
0501310 fuel oil consumed - steam		435,040
Total Steam Generation - Account 501		27,094,337
Nuclear Generation - Account 518		
0518100 burnup of owned fuel		13,313,201
Other Generation - Account 547		
0547000 natural gas consumed - Combustion Turbine		4,491,691
0547000 natural gas capacity - Combustion Turbine		996,201
0547000 natural gas consumed - Combined Cycle		32,733,148
0547000 natural gas capacity - Combined Cycle		12,760,996
0547106 biogas consumed - Combined Cycle		19,217
0547200 fuel oil consumed		506,336
Total Other Generation - Account 547		51,507,587
Purchased Power and Net Interchange - Account 555		
Fuel and fuel-related component of purchased power		33,182,424
Fuel and fuel-related component of DERP purchases		42,394
PURPA purchased power capacity		4,980,037
DERP purchased power capacity		8,937
Total Purchased Power and Net Interchange - Account 555		38,213,792
Less:		
Fuel and fuel-related costs recovered through intersystem sales		12,725,450
Solar Integration Charge		2,034
Total Fuel Credits - Accounts 447/456		12,727,484
Total Costs Included in Base Fuel Component	$	117,401,439
Environmental Costs		
0509030, 0509212, 0557451 emission allowance expense	$	2,470
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense		1,059,783
Emission Allowance Gains		-
Less reagents expense recovered through intersystem sales - Account 447		97,976
Less emissions expense recovered through intersystem sales - Account 447		46,990
Total Costs Included in Environmental Component		917,287
Fuel and Fuel-related Costs excluding DERP incremental costs	$	118,318,726
DERP Incremental Costs		229,565
Total Fuel and Fuel-related Costs	$	118,548,291

Notes:
Detail amounts may not add to totals shown due to rounding.
DERP details are presented on Page 2.

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Description		October 2019
DERP Avoided Costs (Total Capacity and Energy)		
Purchased Power Agreements	$	4,804
Shared Solar Program		711
Total DERP Avoided Costs	$	5,515
DERP Incremental Costs		
Purchased Power Agreements	$	(2,984)
DERP NEM Incentive		99,386
Solar Rebate Program - Amortization		46,382
Solar Rebate Program - Carrying Costs		40,516
Shared Solar Program		3,544
NEM Avoided Capacity Costs		3,241
NEM Meter Costs		9,996
General and Administrative Expenses		29,474
Interest on under-collection due to cap		10
Total DERP Incremental Costs	$	229,565

Notes:

Detail amounts may not add to totals shown due to rounding.

All amounts represent SC retail.

DUKE ENERGY PROGRESS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA

OCTOBER 2019

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	$	$	mWh	Fuel $	Non-fuel $
Broad River Energy, LLC.	$ 1,849,526	$ 216,139	37,978	$ 1,633,387	-
City of Fayetteville	546,485	297,000	2,530	249,485	-
Haywood EMC	28,300	28,300	-	-	-
NCEMC	2,949,650	2,542,572	11,087	407,078	-
PJM Interconnection, LLC.	(8,474)	-	250	(8,474)	-
Southern Company Services	3,060,913	573,300	88,396	2,487,613	-
DE Carolinas - Native Load Transfer	1,487,949	-	59,935	1,487,550	$ 399
DE Carolinas - Native Load Transfer Benefit	197,089	-	-	197,089	-
Energy Imbalance	26,215		1,077	25,080	1,135
Generation Imbalance	1,041		76	635	406
	$ 10,138,694	**$ 3,657,311**	**201,329**	**$ 6,479,443**	**$ 1,940**
Act 236 PURPA Purchases					
Renewable Energy	$ 18,207,474	-	281,243	$ 18,207,474	-
DERP Qualifying Facilities	51,330	-	1,096	51,330	-
Other Qualifying Facilities	13,475,545	-	241,919	13,475,545	-
	$ 31,734,349	**-**	**524,258**	**$ 31,734,349**	**-**
Total Purchased Power	**$ 41,873,043**	**$ 3,657,311**	**725,587**	**$ 38,213,792**	**$ 1,940**

NOTE: Detail amounts may not add to totals shown due to rounding.

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DUKE ENERGY PROGRESS
INTERSYSTEM SALES*
SOUTH CAROLINA

OCTOBER 2019

Sales	Total $	Capacity $	Non-capacity mWh	Non-capacity Fuel $	Non-capacity Non-fuel $
Utilities:					
DE Carolinas - As Available Capacity	$ 108,864	$ 108,864	-	-	-
Market Based:					
NCEMC Purchase Power Agreement	$ 893,211	$ 652,500	7,824	$ 183,433	$ 57,278
PJM Interconnection, LLC.	156,909	-	6,525	158,417	(1,508)
Other:					
DE Carolinas - Native Load Transfer Benefit	$ 1,458,041	-	-	$ 1,458,041	-
DE Carolinas - Native Load Transfer	11,768,904	-	601,841	11,070,366	$ 698,538
Generation Imbalance	177	-	38	159	17
Total Intersystem Sales	**$ 14,386,106**	**$ 761,364**	**616,228**	**$ 12,870,416**	**$ 754,325**

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

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Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
October 2019

Line No.			Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input					4,931,283,369
2	DERP Net Metered kWh generation	Input					2,793,713
3	Adjusted System kWh sales	L1 + L2					4,934,077,082
4	Actual S.C. Retail kWh sales	Input	153,408,871	25,454,842	344,253,108	6,712,786	529,829,607
5	DERP Net Metered kWh generation	Input	1,249,447	25,660	1,518,606		2,793,713
6	Adjusted S.C. Retail kWh sales	L4 + L5	154,658,318	25,480,502	345,771,714	6,712,786	532,623,320
7	Actual S.C. Demand units (kw)	L32 / 31b *100			735,830		
	Base fuel component of recovery - non-capacity						
8	Incurred System base fuel - non-capacity expense	Input					$98,612,871
9	Eliminate avoided fuel benefit of S.C. net metering	Input					$89,706
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9					$98,702,577
11	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L10 / L3 * 100					2.000
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	$3,093,826	$509,719	$6,916,908	$134,284	$10,654,737
13	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	(54,638)	(5,710)	(29,358)	$0	($89,706)
14	S.C. Retail portion of incurred system expense	L12 + L13	$3,039,188	$504,009	$6,887,550	$134,284	$10,565,031
15	Billed base fuel - non-capacity rate (¢/kWh) - Note 1	Input	2.074	2.075	2.075	2.075	2.075
16	Billed base fuel - non-capacity revenue	L4 * L15 /100	$3,182,310	$528,188	$7,143,252	$139,290	$10,993,040
17	DERP NEM incentive - fuel component	Input	($9,762)	($1,020)	($5,245)	$0	($16,027)
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17	$3,172,548	$527,168	$7,138,007	$139,290	$10,977,013
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L18 - L14	($133,360)	($23,159)	($250,457)	($5,006)	($411,982)
20	Adjustment	Input					
21	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L19 + L20	($133,360)	($23,159)	($250,457)	($5,006)	($411,982)
	Base fuel component of recovery - capacity						
22a	Incurred base fuel - capacity rates by class (¢/kWh)	L23 / L4 * 100	0.799	0.503			
22b	Incurred base fuel - capacity rate (¢/kW)	L23 / L7 * 100			90		
23	Incurred S.C. base fuel - capacity expense	Input	1,226,176.00	128,147.00	$658,854		$2,013,177
24a	Billed base fuel - capacity rates by class (¢/kWh) - Note 2	Input	0.692	0.522			
24b	Billed base fuel - capacity rate (¢/kW)	Input			92		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 /100	$1,061,278	$132,874	$ 676,998	$0	$1,871,150
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L25 - L23	$164,898	($4,727)	($18,144)	$0	$142,027
27	Adjustment	Input					
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27	$164,898	($4,727)	($18,144)	$0	$142,027
	Environmental component of recovery						
29a	Incurred environmental rates by class (¢/kWh)	L30 / L4 * 100	0.039	0.025			
29b	Incurred environmental rate (¢/kW)	L30 / L7 * 100			4		
30	Incurred S.C. environmental expense	Input	$60,028	$6,273	$32,254		$98,555
31a	Billed environmental rates by class (¢/kWh) - Note 3	Input	0.074	0.057			
31b	Billed environmental rate (¢/kW)	Input			10		
32	Billed S.C. environmental revenue	L31a * L4 /100	$114,198	$14,509	$ 73,583		$202,290
33	S.C. environmental (over)/under recovery [See footnote]	L32 - L30	($54,170)	($8,236)	($41,329)	$0	($103,735)
34	Adjustment	Input					$0
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34	($54,170)	($8,236)	($41,329)	$0	($103,735)
	Distributed Energy Resource Program component of recovery: avoided costs						
36a	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	L37 / L4 * 100	0.002	0.001			
36b	Incurred S.C. DERP avoided cost rates by class (¢/kW)	L37 / L7 * 100			0.245		
37	Incurred S.C. DERP avoided cost expense	Input	3,359.00	$351	$1,805		$5,515
38a	Billed S.C. DERP avoided cost rates by class (¢/kWh) - Note 4	Input	0.003	0.003			
38b	Billed S.C. DERP avoided cost rates by class (¢/kW)	Input			0		
39	Billed S.C. DERP avoided cost revenue	L38a * L4 /100	$4,568	$764	$0		$5,332
40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L39 - L37	($1,209)	($413)	$1,805	$0	$183
41	Adjustment	Input					
42	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L40 + L41	($1,209)	($413)	$1,805	$0	$183
43	Total (over)/under recovery [See footnote]	L21 + L28 + L35 + L42	($23,841)	($36,535)	($308,125)	($5,006)	($373,507)

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Year 2019-2020

Cumulative (over) / under recovery - BASE FUEL NON-CAPACITY	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2019	$13,424,397					
March 2019 - actual	13,142,207	(113,956)	(15,296)	(148,555)	(4,383)	($282,190)
April 2019 - actual	12,482,712	(178,213)	(25,629)	(447,263)	(8,390)	(659,495)
May 2019 - actual	12,391,437	(39,695)	(9,623)	(40,702)	(1,255)	(91,275)
June 2019 - actual	11,820,549	(204,177)	(33,436)	(326,075)	(7,200)	(570,888)
July 2019 - actual	11,960,164	30,794	2,958	104,254	1,609	139,615
August 2019 - actual	12,138,158	50,982	6,141	118,902	1,969	177,994
September 2019 - actual	12,149,907	(5,068)	(2,111)	18,664	264	11,749
October 2019 - actual	11,737,925	(133,360)	(23,159)	(250,457)	(5,006)	(411,982)
_/5 November 2019 - forecast	11,511,808	(67,740)	(11,192)	(143,741)	(3,444)	(226,117)
_/5 December 2019 - forecast	10,542,131	(350,470)	(43,139)	(562,593)	(13,475)	(969,677)
_/5 January 2020 - forecast	9,711,618	(338,116)	(34,710)	(447,007)	(10,680)	(830,513)
_/5 February 2020 - forecast	8,597,183	(449,048)	(47,035)	(603,928)	(14,424)	(1,114,435)
_/5 March 2020 - forecast	7,746,282	(315,215)	(38,779)	(485,292)	(11,615)	(850,901)
_/5 April 2020 - forecast	5,596,772	(677,876)	(108,128)	(1,331,673)	(31,833)	(2,149,510)
_/5 May 2020 - forecast	4,425,359	(331,416)	(61,776)	(760,065)	(18,156)	(1,171,413)
_/5 June 2020 - forecast	$ 4,256,261	($53,326)	($8,490)	($104,793)	($2,489)	($169,098)

Year 2019-2020

Cumulative (over) / under recovery - BASE FUEL CAPACITY	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2019	$574,929					
March 2019 - actual	320,452	(158,950)	9,884	(105,411)	0	($254,477)
April 2019 - actual	800,238	332,772	51,683	95,331	0	479,786
May 2019 - actual	924,824	125,236	18,384	(19,034)	0	124,586
June 2019 - actual	844,129	(99,572)	(1,971)	20,848	0	(80,695)
July 2019 - actual	1,259,813	196,610	25,312	193,762	0	415,684
August 2019 - actual	2,465,773	642,873	56,685	506,402	0	1,205,960
September 2019 - actual	2,674,275	77,548	(4,581)	135,535	0	208,502
October 2019 - actual	2,816,302	164,898	(4,727)	(18,144)	0	142,027
_/5 November 2019 - forecast	3,001,556	190,144	5,337	(10,227)	0	185,254
_/5 December 2019 - forecast	2,652,697	(243,895)	(3,619)	(101,345)	0	(348,859)
_/5 January 2020 - forecast	2,112,639	(574,205)	(6,512)	40,659	0	(540,058)
_/5 February 2020 - forecast	1,590,345	(506,119)	(3,085)	(13,090)	0	(522,294)
_/5 March 2020 - forecast	1,489,197	(108,014)	14,689	(7,823)	0	(101,148)
_/5 April 2020 - forecast	1,872,864	256,657	19,529	107,481	0	383,667
_/5 May 2020 - forecast	2,226,103	350,538	12,041	(9,340)	0	353,239
_/5 June 2020 - forecast	$ 2,203,423	$66,293	($565)	($88,408)	$0	($22,680)

Year 2019-2020

Cumulative (over) / under recovery - ENVIRONMENTAL	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2019	$199,207					
March 2019 - actual	275,991	40,490	5,702	30,592	0	$76,784
April 2019 - actual	324,903	24,694	3,770	20,448	0	48,912
May 2019 - actual	427,128	57,448	6,955	37,822	0	102,225
June 2019 - actual	515,935	46,245	6,142	36,420	0	88,807
July 2019 - actual	585,999	35,423	4,025	30,616	0	70,064
August 2019 - actual	533,582	(41,088)	(5,683)	(5,646)	0	(52,417)
September 2019 - actual	496,704	(27,209)	(4,454)	(5,215)	0	(36,878)
October 2019 - actual	392,969	(54,170)	(8,236)	(41,329)	0	(103,735)
_/5 November 2019 - forecast	345,750	(19,873)	(3,838)	(23,508)	0	(47,219)
_/5 December 2019 - forecast	329,138	(12,901)	808	(4,519)	0	(16,612)
_/5 January 2020 - forecast	335,454	(22,042)	3,253	25,105	0	6,316
_/5 February 2020 - forecast	345,396	(13,629)	3,737	19,834	0	9,942
_/5 March 2020 - forecast	274,283	(47,707)	(2,388)	(21,018)	0	(71,113)
_/5 April 2020 - forecast	118,490	(91,875)	(10,585)	(53,333)	0	(155,793)
_/5 May 2020 - forecast	(13,959)	(65,502)	(9,693)	(57,254)	0	(132,449)
_/5 June 2020 - forecast	$ (87,049)	($35,263)	($4,701)	($33,126)	$0	($73,090)

Year 2019-2020

Cumulative (over) / under recovery - DERP AVOIDED COSTS	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2019	$19,288					
March 2019 - actual	17,381	(2,803)	(12)	908	0	($1,907)
April 2019 - actual	21,608	1,112	352	2,763	0	4,227
May 2019 - actual	24,699	471	253	2,367	0	3,091
June 2019 - actual	28,250	252	306	2,993	0	3,551
July 2019 - actual	25,974	(3,344)	(290)	1,358	0	(2,276)
August 2019 - actual	21,827	(4,411)	(739)	1,003	0	(4,147)
September 2019 - actual	24,134	(329)	(311)	2,947	0	2,307
October 2019 - actual	24,317	(1,209)	(413)	1,805	0	183
_/5 November 2019 - forecast	22,227	(1,206)	(367)	(517)	0	(2,090)
_/5 December 2019 - forecast	18,384	(2,767)	(373)	(703)	0	(3,843)
_/5 January 2020 - forecast	21,142	416	92	2,250	0	2,758
_/5 February 2020 - forecast	24,160	784	116	2,118	0	3,018
_/5 March 2020 - forecast	28,144	1,935	135	1,914	0	3,984
_/5 April 2020 - forecast	34,372	3,649	170	2,409	0	6,228
_/5 May 2020 - forecast	40,883	4,259	157	2,095	0	6,511
_/5 June 2020 - forecast	$ 45,111	$2,612	$51	$1,565	$0	$4,228

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Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
October 2019

Line No.			Residential	Commercial	Industrial	Total
Distributed Energy Resource Program component of recovery: incremental costs						
44	Incurred S.C. DERP incremental expense	Input	$139,823	$55,346	$34,396	$229,565
45	Billed S.C. DERP incremental rates by account ($/account)	Input	1.00	2.02	99.56	
46	Billed S.C. DERP incremental revenue	Input	$144,827	$68,297	$28,660	$241,784
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	($5,004)	($12,951)	$5,736	($12,219)
48	Adjustment	Input				
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	($5,004)	($12,951)	$5,736	($12,219)

Year 2019-2020

	Cumulative (over) / under recovery	Cumulative	Total
	Balance ending February 2019	$6,239	
	March 2019 - actual	107,362	$101,123
	April 2019 - actual	(62,019)	(169,381)
	May 2019 - actual	13,138	75,157
	June 2019 - actual	48,966	35,828
	July 2019 - actual	95,723	46,757
	August 2019 - actual	82,651	(13,072)
	September 2019 - actual	85,703	3,052
	October 2019 - actual	73,484	(12,219)
_/5	November 2019 - forecast	76,325	2,841
_/5	December 2019 - forecast	71,292	(5,033)
_/5	January 2020 - forecast	64,581	(6,711)
_/5	February 2020 - forecast	61,136	(3,445)
_/5	March 2020 - forecast	83,149	22,013
_/5	April 2020 - forecast	124,790	41,641
_/5	May 2020 - forecast	168,909	44,119
_/5	June 2020 - forecast	$217,283	$48,374

Notes:
Detail amounts may not recalculate due to percentages presented as rounded.

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts. Under collections, or regulatory assets, are shown as positive amounts.

_/1 Total residential billed fuel non-capacity rate is a composite rate reflecting the 7/1/19 approved residential rate of 2.090 and RECD 5% discount.
_/2 Total residential billed fuel capacity rate is a composite rate reflecting the 7/1/19 approved residential rate of .697 and RECD 5% discount.
_/3 Total residential billed environmental rate is a composite rate reflecting the 7/1/19 approved residential rate of .075 and RECD 5% discount.
_/4 Total residential billed DERP avoided capacity rate is a composite rate reflecting the 7/1/19 approved residential rate of .003 and RECD 5% discount.
_/5 Forecast amounts based on low end of range of expected fuel rates.

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Duke Energy Progress
Fuel and Fuel Related Cost Report
October 2019

Description	Weatherspoon CT	Lee CC	Sutton CC/CT	Robinson Nuclear	Asheville Steam	Asheville CC/CT	Roxboro Steam	Mayo Steam
Cost of Fuel Purchased ($)								
Coal	-	-	-	-	$3,186,879	-	$21,720,137	$11,724,856
Oil	-	-	-	$12,634	-	-	346,224	214,394
Gas - CC	-	$15,291,426	$10,620,050	-	-	$2,367,726	-	-
Gas - CT	$24	-	850,383	-	-	263,942	-	-
Biogas	-	-	-	-	-	-	-	-
Total	$24	$15,291,426	$11,470,433	$12,634	$3,186,879	$2,631,668	$22,066,361	$11,939,250
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	381.96	-	528.17	354.62
Oil	-	-	-	1,231.38	-	-	1,404.05	1,394.70
Gas - CC	-	356.68	432.46	-	-	2,706.93	-	-
Gas - CT	-	-	369.19	-	-	483.61	-	-
Biogas	-	-	-	-	-	-	-	-
Weighted Average	-	356.68	427.03	1,231.38	381.96	1,852.69	533.39	359.44
Cost of Fuel Burned ($)								
Coal	-	-	-	-	$3,833,868	-	$20,403,526	$2,421,903
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	$19,477	-	-	-	59,655	$1,680	311,950	63,435
Gas - CC	-	$15,291,426	$10,620,050	-	-	2,367,726	-	-
Gas - CT	24	-	850,383	-	-	263,942	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	$3,301,868	-	-	-	-
Total	$19,501	$15,291,426	$11,470,433	$3,301,868	$3,893,523	$2,633,348	$20,715,476	$2,485,338
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	347.24	-	364.70	325.77
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	1,589.96	-	-	-	1,504.16	800.00	1,435.11	1,466.71
Gas - CC	-	356.68	432.46	-	-	2,706.93	-	-
Gas - CT	-	-	369.19	-	-	483.61	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	55.67	-	-	-	-
Weighted Average	1,591.92	356.68	427.03	55.67	351.38	1,851.13	368.85	332.37
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	4.17	-	3.77	3.88
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	97.39	-	-	-	18.04	7.64	15.23	17.49
Gas - CC	-	2.67	3.06	-	-	27.69	-	-
Gas - CT	-	-	3.68	-	-	4.60	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	0.57	-	-	-	-
Weighted Average	278.59	2.67	3.09	0.57	4.22	18.40	3.81	3.96
Burned MBTU's								
Coal	-	-	-	-	1,104,097	-	5,594,543	743,443
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	1,225	-	-	-	3,966	210	21,737	4,325
Gas - CC	-	4,287,186	2,455,751	-	-	87,469	-	-
Gas - CT	-	-	230,338	-	-	54,577	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	5,930,896	-	-	-	-
Total	1,225	4,287,186	2,686,089	5,930,896	1,108,063	142,256	5,616,280	747,768
Net Generation (mWh)								
Coal	-	-	-	-	91,879	-	541,908	62,344
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	20	-	-	-	331	22	2,049	363
Gas - CC	-	573,668	347,606	-	-	8,552	-	-
Gas - CT	(13)	-	23,110	-	-	5,737	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	579,093	-	-	-	-
Hydro (Total System)								
Solar (Total System)								
Total	7	573,668	370,716	579,093	92,210	14,311	543,957	62,707
Cost of Reagents Consumed ($)								
Ammonia	-	-	-	-	-	-	$139,946	$17,552
Limestone	-	-	-	-	$94,362	-	455,872	81,216
Re-emission Chemical	-	-	-	-	-	-	-	-
Sorbents	-	-	-	-	8,597	-	123,229	44,178
Urea	-	-	-	-	71,033	-	-	-
Total	-	-	-	-	$173,992	-	$719,047	$142,946

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

Description	Brunswick Nuclear	Blewett CT	Wayne County CT	Darlington CT	Smith Energy Complex CC/CT	Harris Nuclear	Current Month	Total 12 ME October 2019
Cost of Fuel Purchased ($)								
Coal	-	-	-	-	-	-	$36,631,872	$383,768,279
Oil	-	-	-	-	-	-	573,252	14,695,157
Gas - CC	-	-	-	-	$17,214,942	-	45,494,144	561,167,087
Gas - CT	-	-	$383,653	$168,992	3,820,902	-	5,487,896	103,397,057
Biogas	-	-	-	-	91,924	-	91,924	1,579,596
Total	-	-	$383,653	$168,992	$21,035,844	-	$88,279,088	$1,064,607,176
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	-	-	443.86	348.39
Oil	-	-	-	-	-	-	1,396.23	1,520.43
Gas - CC	-	-	-	-	318.67	-	371.91	409.51
Gas - CT	-	-	361.69	336.95	320.32	-	335.86	401.15
Biogas	-	-	-	-	2,688.62	-	2,688.62	2,884.95
Weighted Average	-	-	361.69	336.95	320.20	-	398.30	388.57
Cost of Fuel Burned ($)								
Coal	-	-	-	-	-	-	$26,659,297	$365,606,691
Oil - CC	-	-	-	-	$109,345	-	109,345	111,369
Oil - Steam/CT	-	-	$5,344	$335,535	34,948	-	832,024	14,569,997
Gas - CC	-	-	-	-	17,214,942	-	45,494,144	561,167,087
Gas - CT	-	-	383,653	168,992	3,820,902	-	5,487,896	103,397,057
Biogas	-	-	-	-	91,924	-	91,924	1,579,596
Nuclear	$8,484,116	-	-	-	-	$1,527,223	13,313,207	178,527,451
Total	$8,484,116	-	$388,997	$504,527	$21,272,061	$1,527,223	$91,987,837	$1,224,959,249
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	-	-	358.22	344.94
Oil - CC	-	-	-	-	1,662.54	-	1,662.54	1,662.47
Oil - Steam/CT	-	-	1,746.41	1,724.67	1,662.61	-	1,560.26	1,490.67
Gas - CC	-	-	-	-	318.67	-	371.91	409.51
Gas - CT	-	-	361.69	336.95	320.32	-	335.86	401.15
Biogas	-	-	-	-	2,688.62	-	2,688.62	2,884.95
Nuclear	57.44	-	-	-	-	64.95	57.75	59.95
Weighted Average	57.44	-	365.68	724.81	321.96	64.95	207.06	215.81
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	-	-	3.83	3.79
Oil - CC	-	-	-	-	19.56	-	19.56	19.54
Oil - Steam/CT	-	-	-	25.66	18.98	-	20.07	19.81
Gas - CC	-	-	-	-	2.56	-	2.84	2.95
Gas - CT	-	-	3.58	4.69	2.41	-	2.72	4.44
Biogas	-	-	-	-	22.47	-	22.47	19.76
Nuclear	0.60	-	-	-	-	0.69	0.60	0.63
Weighted Average	0.60	-	3.66	10.28	2.55	0.69	1.94	2.02
Burned MBTU's								
Coal	-	-	-	-	-	-	7,442,083	105,990,488
Oil - CC	-	-	-	-	6,577	-	6,577	6,699
Oil - Steam/CT	-	-	306	19,455	2,102	-	53,326	977,413
Gas - CC	-	-	-	-	5,402,077	-	12,232,483	137,032,591
Gas - CT	-	-	106,071	50,153	1,192,851	-	1,633,990	25,775,418
Biogas	-	-	-	-	3,419	-	3,419	54,753
Nuclear	14,770,441	-	-	-	-	2,351,499	23,052,836	297,784,379
Total	14,770,441	-	106,377	69,608	6,607,026	2,351,499	44,424,714	567,621,741
Net Generation (mWh)								
Coal	-	-	-	-	-	-	696,132	9,635,497
Oil - CC	-	-	-	-	559	-	559	570
Oil - Steam/CT	-	(50)	(80)	1,307	184	-	4,146	73,538
Gas - CC	-	-	-	-	673,438	-	1,603,264	19,043,981
Gas - CT	-	-	10,722	3,600	158,250	-	201,405	2,329,268
Biogas	-	-	-	-	409	-	409	7,992
Nuclear	1,406,580	-	-	-	-	221,209	2,206,882	28,526,206
Hydro (Total System)							19,876	723,056
Solar (Total System)							19,087	246,488
Total	1,406,580	(50)	10,642	4,907	832,840	221,209	4,751,760	60,586,596
Cost of Reagents Consumed ($)								
Ammonia	-	-	-	-	$23,799	-	$181,297	$2,092,412
Limestone	-	-	-	-	-	-	631,450	11,390,919
Re-emission Chemical	-	-	-	-	-	-	-	0
Sorbents	-	-	-	-	-	-	176,003	3,481,120
Urea	-	-	-	-	-	-	71,033	1,140,298
Total	-	-	-	-	$23,799	-	$1,059,783	$18,104,749

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Duke Energy Progress **Schedule 6**
Fuel & Fuel-related Consumption and Inventory Report **Page 1 of 3**
October 2019

Description	Weatherspoon	Lee	Sutton	Robinson	Asheville
Coal Data:					
Beginning balance	-	-	-	-	25,082
Tons received during period	-	-	-	-	34,155
Inventory adjustments	-	-	-	-	-
Tons burned during period	-	-	-	-	45,198
Ending balance	-	-	-	-	14,039
MBTUs per ton burned	-	-	-	-	24.43
Cost of ending inventory ($/ton)	-	-	-	-	84.82
Oil Data:					
Beginning balance	641,477	-	2,620,038	78,040	3,014,414
Gallons received during period	-	-	-	7,432	-
Miscellaneous use and adjustments	-	-	-	-	(3,716)
Gallons burned during period	8,748	-	-	7,432	29,062
Ending balance	632,729	-	2,620,038	78,040	2,981,636
Cost of ending inventory ($/gal)	2.23	-	2.80	2.37	2.11
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	4,149,699	2,601,523	-	137,519
MCF burned during period	-	4,149,699	2,601,523	-	137,519
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	-
MCF burned during period	-	-	-	-	-
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	-	8,494
Tons received during period	-	-	-	-	691
Inventory adjustments	-	-	-	-	-
Tons consumed during period	-	-	-	-	1,999
Ending balance	-	-	-	-	7,186
Cost of ending inventory ($/ton)	-	-	-	-	45.41

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Duke Energy Progress **Schedule 6**
Fuel & Fuel-related Consumption and Inventory Report **Page 2 of 3**
October 2019

Description	Roxboro	Mayo	Brunswick	Blewett	Wayne County
Coal Data:					
Beginning balance	878,079	418,861	-	-	-
Tons received during period	165,860	128,170	-	-	-
Inventory adjustments	-	-	-	-	-
Tons burned during period	224,472	28,939	-	-	-
Ending balance	819,467	518,092	-	-	-
MBTUs per ton burned	24.92	25.69	-	-	-
Cost of ending inventory ($/ton)	91.20	83.69	-	-	-
Oil Data:					
Beginning balance	382,090	219,747	160,962	771,806	11,924,861
Gallons received during period	178,685	111,394	-	-	-
Miscellaneous use and adjustments	(7,441)	(4,751)	-	-	-
Gallons burned during period	156,550	31,464	8,591	-	2,226
Ending balance	396,784	294,926	152,371	771,806	11,922,635
Cost of ending inventory ($/gal)	1.99	2.02	2.37	2.37	2.40
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	102,676
MCF burned during period	-	-	-	-	102,676
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	-
MCF burned during period	-	-	-	-	-
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	69,006	21,279	-	-	-
Tons received during period	23,677	3,814	-	-	-
Inventory adjustments	-	-	-	-	-
Tons consumed during period	11,352	1,739	-	-	-
Ending balance	81,331	23,354	-	-	-
Cost of ending inventory ($/ton)	38.27	45.99	-	-	-

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Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
October 2019

Schedule 6
Page 3 of 3

Description	Darlington	Smith Energy Complex	Harris	Current Month	Total 12 ME October 2019
Coal Data:					
Beginning balance	-	-	-	1,322,022	1,223,180
Tons received during period	-	-	-	328,185	4,369,044
Inventory adjustments	-	-	-	-	(22,721)
Tons burned during period	-	-	-	298,609	4,217,905
Ending balance	-	-	-	1,351,598	1,351,598
MBTUs per ton burned	-	-	-	24.92	25.13
Cost of ending inventory ($/ton)	-	-	-	88.26	88.26
Oil Data:					
Beginning balance	10,344,259	8,168,695	271,937	38,598,326	38,594,302
Gallons received during period	-	-	-	297,511	7,003,741
Miscellaneous use and adjustments	-	-	-	(15,908)	(206,849)
Gallons burned during period	140,219	61,991	-	446,283	6,957,548
Ending balance	10,204,040	8,106,704	271,937	38,433,646	38,433,646
Cost of ending inventory ($/gal)	2.39	2.33	2.37	2.38	2.38
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	48,698	6,382,990	-	13,423,105	158,046,479
MCF burned during period	48,698	6,382,990	-	13,423,105	158,046,479
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	3,312	-	3,312	53,197
MCF burned during period	-	3,312	-	3,312	53,197
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	98,779	119,807
Tons received during period	-	-	-	28,182	246,767
Inventory adjustments	-	-	-	-	(2,124)
Tons consumed during period	-	-	-	15,090	252,579
Ending balance	-	-	-	111,871	111,871
Cost of ending inventory ($/ton)	-	-	-	40.34	40.34

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Schedule 7

DUKE ENERGY PROGRESS

ANALYSIS OF COAL PURCHASED

OCTOBER 2019

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ASHEVILLE	SPOT	-	-	-
	CONTRACT	34,155	$ 2,450,512	$ 71.75
	FIXED TRANSPORTATION/ADJUSTMENTS	-	736,367	-
	TOTAL	34,155	3,186,879	93.31
MAYO	SPOT	-	19,301	-
	CONTRACT	128,170	8,245,991	64.34
	FIXED TRANSPORTATION/ADJUSTMENTS	-	3,459,564	-
	TOTAL	128,170	11,724,856	91.48
ROXBORO	SPOT	-	(9,677)	-
	CONTRACT	165,860	11,242,124	67.78
	FIXED TRANSPORTATION/ADJUSTMENTS	-	10,487,690	-
	TOTAL	165,860	21,720,137	130.95
ALL PLANTS	SPOT	-	9,624	-
	CONTRACT	328,185	21,938,627	66.85
	FIXED TRANSPORTATION/ADJUSTMENTS	-	14,683,621	-
	TOTAL	328,185	$ 36,631,872	$ 111.62

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Schedule 8

DUKE ENERGY PROGRESS

ANALYSIS OF COAL QUALITY RECEIVED

OCTOBER 2019

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ASHEVILLE	7.16	10.92	12,214	1.79
MAYO	6.14	8.14	12,898	2.74
ROXBORO	6.17	11.01	12,397	1.48

DUKE ENERGY PROGRESS

ANALYSIS OF OIL PURCHASED

OCTOBER 2019

	MAYO	ROBINSON	ROXBORO
VENDOR	Greensboro Tank Farm	Hightowers Petroleum Co.	Greensboro Tank Farm
SPOT/CONTRACT	Contract	Contract	Contract
SULFUR CONTENT %	0	0	0
GALLONS RECEIVED	111,394	7,432	178,685
TOTAL DELIVERED COST	$ 214,394	$ 12,634	$ 346,224
DELIVERED COST/GALLON	$ 1.92	$ 1.70	$ 1.94
BTU/GALLON	138,000	138,000	138,000

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